

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/064177 A1

(51) International Patent Classification⁷: **F16D 7/10**,
F16L 23/036

(21) International Application Number:
PCT/EP2004/014902

(22) International Filing Date:
23 December 2004 (23.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03/15578 30 December 2003 (30.12.2003) FR

(71) Applicant (for all designated States except US): **FMC
TECHNOLOGIES SA** [FR/FR]; Route des Clérimois,
F-89100 Sens (FR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LE DEVEHAT,
Renaud** [FR/FR]; 1, route de Vallières, Ancienne Gare,
Fleurigny, F-89260 Thorigny-sur-Oreuse (FR).

(74) Agent: **SANTARELLI**; 14, avenue de la Grande Armée,
Boîte postale 237, F-75822 Paris Cedex 17 (FR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

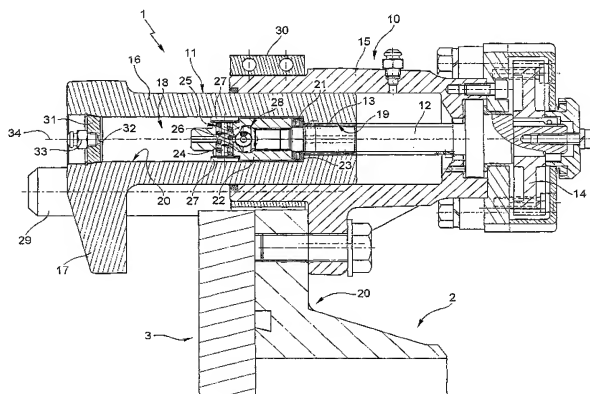
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: COUPLING WITH DIRECT TRANSMISSION OF THE ROTATIONAL MOVEMENT OF AN ACTUATION BOLT
TO A CLAMPING JAW DRIVEN IN TRANSLATION BY THE LATTER



(57) Abstract: The invention relates to a coupling of the sort comprising at least one clamping jaw (11) adapted to be mounted on a first element (2) to couple the latter to a second element (3) by clamping the second element (3) against the first element (2), the clamping or releasing of the second element (3) resulting from a translational movement following an axis (34), while the disengagement or capture of this second element is due to a rotational movement of the clamping jaw (11) about the same axis (34), the clamping jaw comprising a bore (18) having a threaded part (19) forming a nut (13) in which is engaged an actuation bolt (12) defining said axis (34) and able to drive the clamping jaw (11) in translation following the latter, characterized in that the torque limitation means (25, 28) able to engage the actuation bolt (12) and the clamping jaw (11), by means of the bore (18) of this clamping jaw (11), allow the transmission of the rotational movement of the actuation bolt (12) directly to the clamping jaw (11) and, consequently, the driving of this clamping jaw (11) in rotation about said axis (34).

WO 2005/064177 A1